## PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY **PCT** To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION DK-W0040221P See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. 15.04.2004 06.04.2005 PCT/JP2005/006754 International Patent Classification (IPC) or both national classification and IPC **Applicant** DAIKIN INDUSTRIES, LTD. This opinion contains indications relating to the following items: Basis of the opinion Box No. I Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Certain documents cited Box No. VI Certain defects in the international application Box No. VII Certain observations on the international application Box No. VIII **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. Authorized officer Name and mailing address of the ISA/JP

Telephone No.

Facsimile No.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/006754

Box	k No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	itional comments:
1		

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Box		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)	Claims	1-20	YES	
		Claims		NO	
	Inventive step (IS)		8-10, 18-20	YES	
		Claims	1-7, 11-17	. NO	
	Industrial applicability (IA)		1-20	YES	
		Claims		NO	

2. Citations and explanations:

Document 1: Microfilm of the specification and drawings first annexed to the written application of Japanese Utility Model Application Nr. 56838/1987 (Laid-open No. 164689/1988) (Daikin Industries, Ltd.), 26 October, 1988 (26.10.88), Full text, Figures 1-4

Document 2: Microfilm of the specification and drawings first annexed to the written application of Japanese Utility Model Application Nr. 128406/1988 (Laid-open No. 48694/1990) (Showa Electric Wire & Cable Co., Ltd.), 4 April, 1990 (04.04.90), Full text, Figures 1-4

Document 3: CD-ROM of the specification and drawings annexed to the written application of Japanese Utility Model Application Nr. 30952/1992 (Laid-open No. 90078/1993), (Mitsubishi Motors Corp.), 7 December, 1993 (07.12.93), [0009] – [0012], Figure 1

Document 4: JP, 49-41543, Y1 (Sanyo Electric Co., Ltd.), 14 November, 1974 (14.11.74), Full text, Figure 2

The inventions of claims 1, 2, 5, 11, 12 and 15 do not appear to involve an inventive step in view of document 1 and document 2 cited in the ISR. An invention providing a tapered section on a male screw is described in document 2, and applying this to the joint of document 1 is easy for a person skilled in the art. And document 1 describes the point of threading together a male screw and a female screw while being inserted into the tube, and document 2 describes also the invention of giving the tapered section a convex spheroidal surface.

The invention of claims 3 and 13 do not appear to involve an inventive step in view of documents 1-3 cited in the ISR. Document 3 describes an invention where the tapering angle of the male side is made smaller than the tapering angle of the female side, and combining documents 1-3 is easy for a person skilled in the art.

The inventions of claims 4, 6, 7, 14, 16 and 17 do not appear to involve an inventive step in view of documents 1-4 cited in the ISR. Document 4 describes an invention where a protrusion and an O-ring are provided on the tapered section of the male side, and combining documents 1-4 is easy for a person skilled in the art.